VS SERIES PROFESSIONAL SPEAKER USER MANUAL

VS-10 • VS-12 • VS-12M • VS-15 • VS-153
VS-15 B • VS-18B

⚠ WARNING & SAFETY INSTRUCTIONS

1. READ INSTRUCTIONS carefully before operating this product.

2. RETAIN these instructions.

3. COMPLY WITH WARNINGS - All warnings and instructions for this product should be adhered to.

4. USE WITH AMPLIFIERS - In order to avoid damage, it is advisable to establish and follow a pattern for turning on and off any sound system. With all system parts connected, turn on source equipment, tape decks, instruments, mixers, signal processors etc., BEFORE turning on your power amplifier. Many products output turn on and turn off transients that can damage speakers. By turning on your power amplifier LAST and making sure the amplifier's input controls are at minimum any transients "upstream" of the amplifier are not amplified and passed to the speaker. Wait until all system parts have stabilised, then bring up amplifier controls to operating level. This should take no more than a few seconds. Similarly when shutting systems down, always turn down amplifier input controls and then turn off your amplifier BEFORE shutting down other components. Professional amplifiers often feature delayed turn on/off circuits to perform these functions for you automatically.

5. CABLES - Never use shielded or microphone cable for any speaker connection as this will not be heavy enough to handle the amplifier load and could cause damage to the complete system.

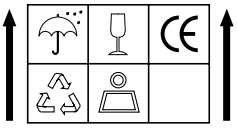
6. ⚠ RIGGING • SUSPENDING • MOUNTING
The rigging, suspension or mounting of this speaker system can expose members of the public to serious health risks and even death. UNDER NO CIRCUMSTANCES ATTEMPT TO RIG, SUSPEND OR OTHERWISE MOUNT THIS SYSTEM UNLESS YOU ARE FULLY QUALIFIED AND CERTIFIED TO DO SO BY RELEVANT LOCAL, STATE AND NATIONAL AUTHORITIES. ALL RELEVANT SAFETY REGULATIONS MUST BE FOLLOWED. IF YOU ARE NOT PROPERLY QUALIFIED OR DO NOT KNOW OF PERTINENT REGULATIONS, CONSULT QUALIFIED PERSONNEL FOR ADVICE AND ASSISTANCE.

7. ⚠ CAUTION: These professional loudspeaker systems are capable of generating very high sound pressure levels. Use care with placement and operation to avoid exposure to excessive levels that can cause permanent hearing damage.

8. SERVICING - The user should not attempt to service this product.

Wharfedale Pro VS Series of Professional Sound Reinforcement Loudspeakers

- Reliable, Durable construction
- Proprietary designed, high efficiency, high power Wharfedale Professional drive units.
- Protective grills
- Integral High Frequency Driver Overload protection "PRO-TECH" ™
- Elliptical Wave Guide, twin drive high frequency section gives smooth coverage and musical, low distortion and accurate sound quality.
- Compact, light weight trapezoidal enclosures, with stacking corners, handles and protective steel grills.
- Integral tripod stand adaptor
- Full range and complimentary Sub Bass systems
- Exceptional sound quality, with broad bandwidth and dynamic range
- High Power Handling
- High Efficiency



Unpacking
All Wharfedale Pro products are fully checked before leaving the factory. After unpacking please inspect cabinets for any physical damage. Please retain the shipping carton if possible and internal packing material in case the unit needs to be returned. Please check as soon as possible the unit is functioning. In the event of any damage please contact your dealer immediately so that a written claim for damages can be made.

Wharfedale Pro Limited Warranty*
Wharfedale Pro VS Series loudspeaker systems are warranted to be clear of manufacturing or materials defects for a period of one year from the original date of purchase. In the event of malfunction, contact your authorised Wharfedale Professional dealer or distributor for information.

*Be aware that warranty details may differ from country to country. Contact your dealer or distributor for information. These terms do not infringe your statutory rights.

Operating/Use

1. The VS Series accept cables with Speakon™ and 1/4" jack connectors. The units feature two jack sockets and two Speakon™ type connectors situated at the rear of each cabinet. These are connected in parallel. You can connect The VS cabinets in parallel. Take care to avoid adding too many speaker systems in parallel. Each parallel connected speaker increases the load on the amplifier and can add up to a total load that may exceed the amplifier's capabilities, leading to possible damage. Two 8Ω loudspeakers in parallel make a 4Ω total load. Four 8Ω parallel connected loudspeakers make a total load of 2Ω, which is too low for many amplifiers.

2. Connect the speaker cable securely to your VS cabinet and power amplifier (the amplifier should be **off, power down mode**). Always use quality 1⁄4" jack connectors . Try to use the correct type of speaker cable according to the handling ability of your VS Series Cabinet. Use 2 conductor equal stranded insulated cable for speaker runs. It is always advisable to use heavier conductor cables on longer runs.

3. Insert jack plug until secure.

4. Power up amplifier with levels on zero. Confirm VS loudspeaker is working are operating.

Model name	VS-10	VS-12	VS-12M	VS-15	VS-153	VS-15SB	VS-18SB
FREQ RESP +/- 3 DB	60 - 20k	50 - 20k	60 - 20k	50 - 20k	50 - 20k	50 - 400Hz	45 - 400Hz
SENSITIVITY 1W@1M94	94dB	96dB	96dB	96dB	96dB	97dB	97dB
NOMINAL COVERAGE HOZ		60º	60º	60º	60º	60º	— —
NOMINAL COVERAGE VERT		45º	45º	45º	45º	45º	— —
INPUT POWER (watts) Continuous Music Peak	 70 140 280	 125 250 500	 125 250 500	 150 300 600	 180 360 720	 200 400 800	 220 440 880
MAX SPL PEAK	117dB	121dB	121dB	123dB	123dB	123dB	124dB
NOMINAL IMPEDANCE	8Ω	8Ω	8Ω	8Ω	8Ω	4Ω	4Ω
PRODUCT DIMS H W D	470 293 282	554 428 335	405 (SITU) 428 625	624 463 350	729 535 393	578 465 400	735 541 400
SHAPE	Trap	Trap	US mon	Trap	Trap	Rectangle	Rectangle
WEIGHT NET	7.5kg	12.75kg	12kg	16.15kg	23.75kg	21.55kg	30.2kg
WEIGHT GROSS				23.8kg	32.9kg		
L F DRIVER SIZE (mm/ins)	200/10	250/12	250/12	380/15	380/15	380/15	440/18
MAGNET WT	475g	475g	475g	1180g	1180g	1180g	1362g
COIL SIZE	38/1.5	38/1.5	38/1.5	38/1.5	38/1.5	65/2.5	75/3.0
FRAME MATERIAL	steel	steel	steel	steel	steel	steel	steel
MID DRIVER SIZE Magnet size Coil size Frame material	—	—	—	—	6.5” 307g 25.5 steel	—	—
H/F SECTION TYPE	Electro/Dynamic	Electro/Dynamic	Electro/Dynamic	Electro/Dynamic	Electro/Dynamic	—	—
SYSTEM BOX FREQUENCY	60Hz	50Hz	45Hz	40Hz	40Hz	40Hz	40Hz
ATT DB	12	9	9	7	7		
PROTECT TYPE	Bulb	Bulb	Bulb	Bulb	Bulb	—	—
OPERATING BAND PASS	—	—	—	—	1.8/6kHz	80-350Hz	80-350Hz
FINISH COLOUR	Black Carpet	Black Carpet	Black Carpet	Black Carpet	Black Carpet	Black Carpet	Black Carpet
CONSTRUCTION MATERIALS	Particle board	Particle board	Particle board	Particle board	MDF	MDF	MDF
HANDLES QTY	2	2	2	2	2	2	2
GRILLE	Black full	Black full	Black full	Black full	Black full	Black full	Black full
STAND HI MONT	Yes	Yes	No	Yes	Yes	—	—
STAND BASS BOX	—	—	—	—	—	Yes	Yes
CONNECTORS IN	2 x ¼” jack input	2 x ¼” jack input	2 x ¼” jack input	2 x ¼” jack input	2 x ¼” jack input	2 x ¼” jack input	2 x ¼” jack input

VS FULL RANGE SERIES

VS 10 • VS 12 • VS 12M • VS 15 • VS 153

The speakers in this series are a full range, high power handling, high efficiency cabinet designed for professional applications such as the reproduction and reinforcement of music, musical instrument, vocal and spoken voice.

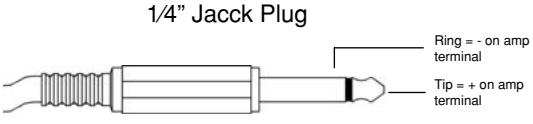
VS SUB BASS RANGE SERIES

VS 15 B • VS 18B

SUB WOOFER OPERATION: Where significant extension of low frequency output of your system is required, the addition of a VS Series SUB will provide well balanced, high output enhancement and power to the overall system.

Passive mode:

In the (standard) passive mode, the power amplifier can be connected to the EVP SUB system through the system’s internal low pass filters. The VS Full Range Speaker is connected from the input/output connector panel and receives a full range signal via the sub cabinet. (See drawing) Alternatively the sub models can be connected directly to the amp as can the full range cabinets.



Active mode:

For high output and demanding applications the subs can be powered directly and exclusively from their own amplifier. For the recommended x-over point of the particular VS Sub Bass cabinet being used consult the specification table above under ‘OPERATING BAND PASS’. It is possible to operate subwoofers at higher low pass frequencies than recommended however system sound quality and integrity are improved by the use of lower frequencies. Thus higher output levels can be used with human voice and instrument fundamentals maintained at more natural balance. If you have a variable low pass on your active crossover, we recommend experimenting for the ideal frequency for your application. Take care to re-adjust relative systems levels for any frequency changes made.

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